NAVY REGION SOUTHWEST SUSTAINABLE SOLID WASTE PROGRAM

Construction and Demolition Debris Management



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Report Documentation Page

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SUSTAINABLE SOLID WASTE PROGRAM

- Uses RCRA to define non-hazardous solid waste
- Establishes management standards
 - "Disposal as a last resort"
 - Promotes resourceful vs. wasteful paradigm
- Develops and implements policies
- Executes programs and operations for:
 - Construction and Demolition Debris Diversion
 - Integrated Solid Waste Management
 - Refuse and Recycling Operations
 - Military Industrial Waste Management
 - Disaster Debris Management
 - Furniture Reuse Program



CONSTRUCTION & DEMOLITION DEBRIS MANAGEMENT

- California Assembly Bill 939
- Local landfill scheduled to close in 2017
 - Estimated annual \$8M increase in disposal costs
- CNRSWINST 11350.1A
 - Requires a solid waste management plan be submitted during planning phase of projects
 - Establishes monthly C&D reporting requirements
- 2008 72,463 tons of C&D were diverted equating to an 84.81% diversion rate
 - Saved approximately 300,000 cubic yards of landfill space
- Currently tracking 248 projects throughout Navy Region SW



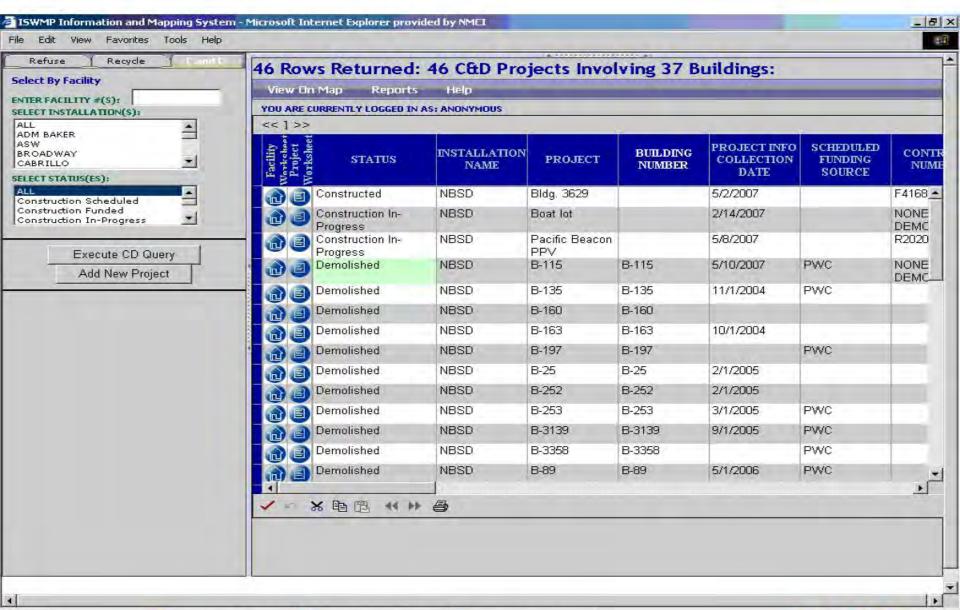
MAPPING TECHNOLOGY: ONE CLEAR PICTURE (OCP)

- Technology to streamline SSW business line management
 - Mapping tool using satellite imagery
 - Data-sharing, web-base program management
 - Manages data per construction or demolition project
- Calculates solid waste diversion rates, cost savings, and verifies cost effectiveness of recycling
- Used <u>daily</u> by Management and Field Level SSW Personnel
- Available document repository per project

A PICTURE PAINTS A THOUSAND WORDS

LIST OF C&D PROJECTS IN DATA BASE

PER BASE OR REGION-WIDE

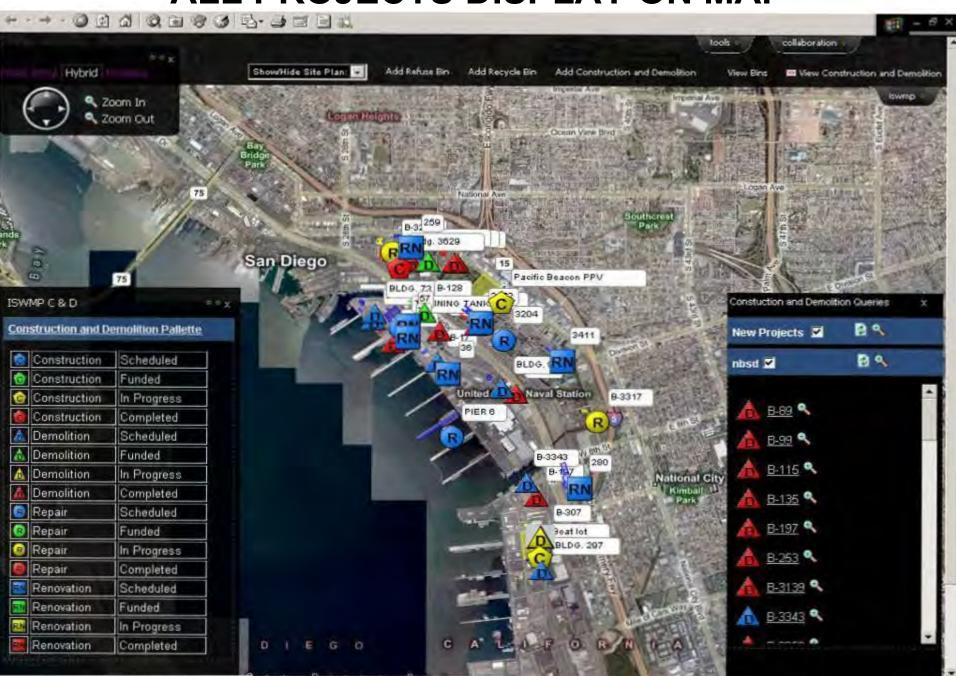


ISWMP OCP BRIEF MAYO... | SWMP Information a...

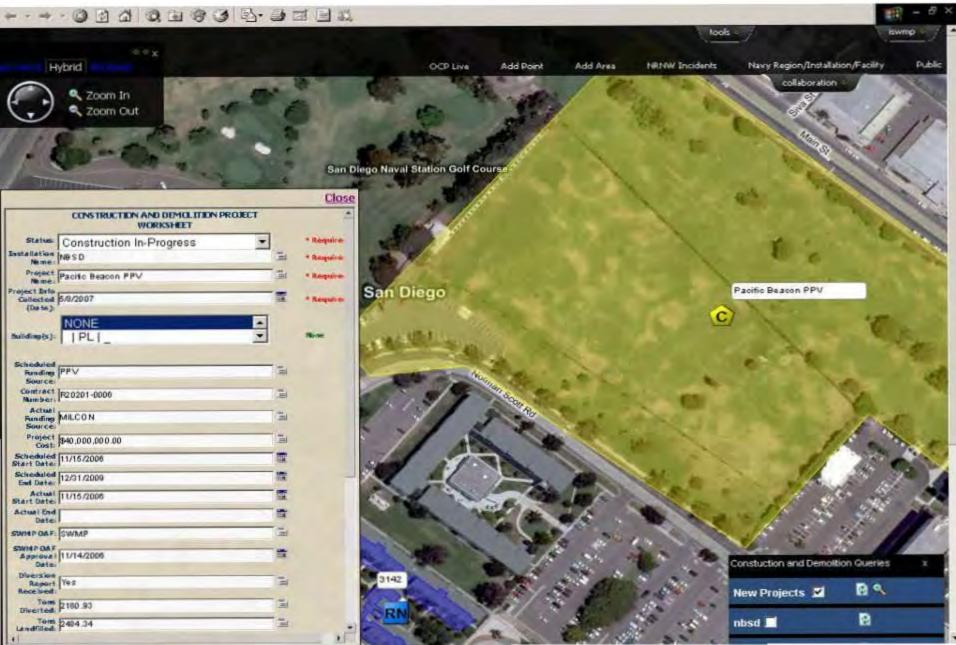
Start

Inbox - Microsoft Outlook

ALL PROJECTS DISPLAY ON MAP

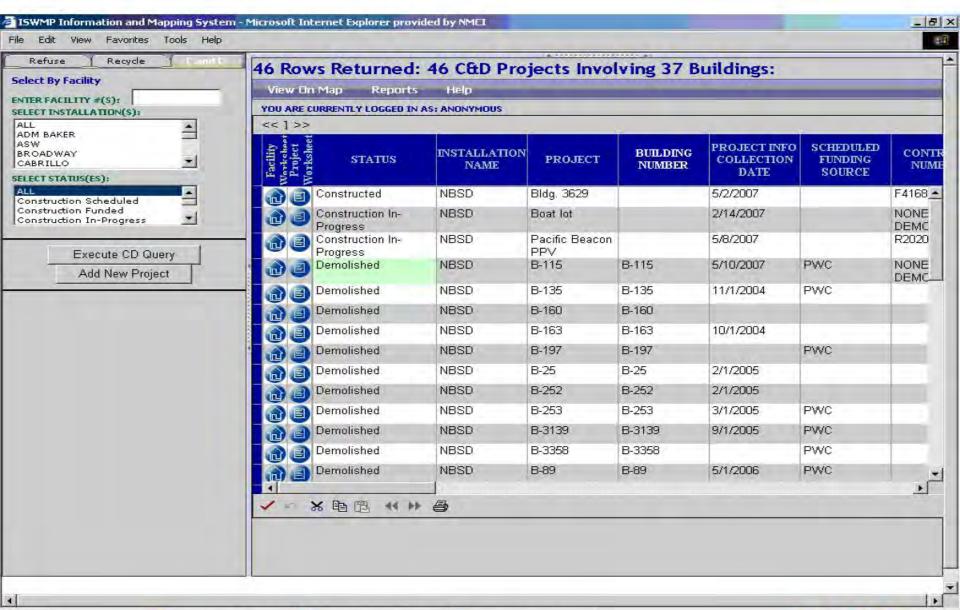


VIEW INDIVIDUAL PROJECTS CLICK ICON TO SHOW PROJECT WORK SHEET



LIST OF C&D PROJECTS IN DATA BASE

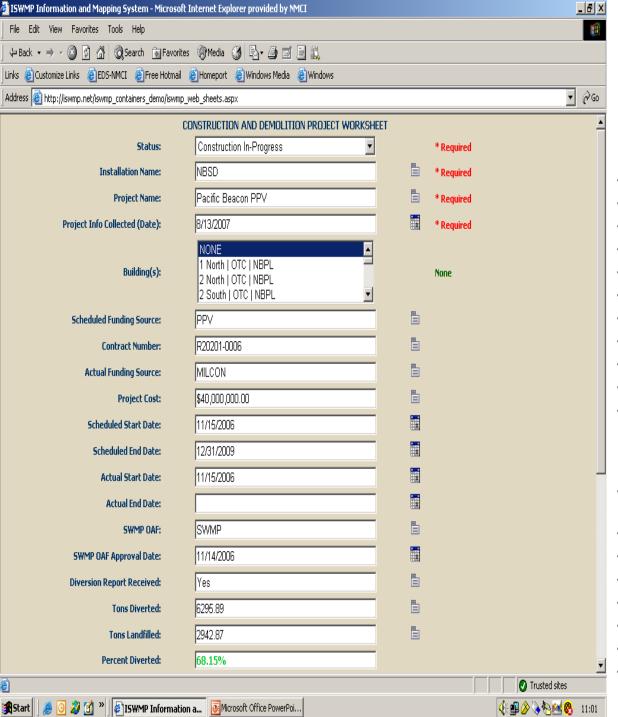
PER BASE OR REGION-WIDE



ISWMP OCP BRIEF MAYO... | SWMP Information a...

Start

Inbox - Microsoft Outlook



PROJECT WORKSHEET

<u>Displays individual project</u> <u>General Info</u>

- Project Status
- Installation
- Project Name
- Info Collection Date
- Building #
- Funding Source
- Contract #
- Project Cost
- Scheduled Start and End Dates
- Actual Start and End Dates
- Project Manager Name and Phone #

ISWMP Info

- SWMP or WAF Submittal and Approved Dates
- Diversion Reports Received
- Tons Diverted
- Tons Landfilled
- Percent Diverted
- Cost to Landfill
- Cost to Recycling/Divert
 - Cost Avoidance

REPORT VERIFIES COST BENEFIT OF DIVERSION

7,536

40,403

2,236

10,200

540

460

61,375

\$45,970

\$202,015

\$43,618

\$51,000

\$25,000

\$11,500

\$379,103

62.11%

98.86%

45.40%

79.78%

68.35%

81.42%

72.65%

\$150,720

\$1,474,709

\$89,429

\$545,700

\$19,710

\$92,000

\$2,372,268

AND COMPLIANCE WITH CNRSWINST 11350.1A											
TYPE	SITE	LANDFILL ED	COST	DIVERTED	COST	PERCENT	COST				
						DIVERTED	AVOIDANCE				

\$91,940

\$93,200

\$107,548

\$215,847

\$108,000

\$21,000

\$637,535

37% OF THE TOTAL COSTS PAID FOR 85% OF THE MATERIALS TO BE

63% OF THE TOTAL COSTS PAID FOR 15% OF THE MATERIAL TO

Renovation

In Progress

Construction

In Progress

Constructed

Demolished

Construction

BE LANDFILLED.

RECYCLED!!!!

In Progress

Demo'd

Housing

NAB

B-652

NBC

Pacific

Beacon **PPV**

Commiss

ary

Q-35

NEW

MAIN GATE

TOTAL

4,597

466

2,688

2,585

250

105

10,692



CONCLUSION

- Technology assists in compliance with CNRSWINST 11350.1A Construction and Demolition Debris Program
- Tracks solid waste diversion by project
- Verifies submission of solid waste management plan or opportunity assessment form
- More cost effective to divert than landfill waste
- Verifies economic feasibility goes handin-hand with environmental sustainability